

The Fallacies of IP/Optical Convergence and a Case for Smart Coherent Pluggables

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Question

What is from 1984 and has seven layers?





L7 - APPLICATION L6-PRESENTATION L5 - SESSION L4 - TRANSPORT L3 - NETWORK L2 - DATA LINK L1 - PHYSICAL

Ignorance is bliss



Ignorance about layer 1 is bliss



Ignorance about layer 3 is bliss

IP-optical co complete so

Networks with separate IP a unnecessary resource overh management mechanisms. given performance target, need to be. Like many oth and lowers the ability to

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distributed applications

bandwidth and lower lat

end-users. Many netwo evaluating IP/Optical c

IP network modernizat emerging requirements.

cost-efficient, resilient and unified neuro

are the key elements required to realize the benefits of IP/Optical convergence? There is no 'one size fits

diale CISCO WHITE PAPER A Framework for / **Building from Ex** Pioneering The communications landsca changing. Market dynamics a Trar changing enterprise cloud as and data center connectivity Cisco Ro cases and exciting revenue Communications Service I an IP networking perspect cases are also creating ne new traffic patterns, the

Tracking IP-over-DWDM Momentum as the Industry Turns Toward Convergence Home / Service Provider Transformation / Tracking IP-over-DWDM Mom... Tracking IP-over-DWDM Momentum as the Industry Turns Toward Convergence

by Moran Roth as part of then 87 percent of providers important or critical for their nex.

all' solution, as architecture evolution needs to start with the CSP's current network reality. While the

Search

The Rise of Coherent Pluggable Optics





Performance in Ideal Circumstances



1,800KM - LIVE NETWORK

400G QSFP-DD Spectrum shared with multiple vendors

400G 16QAM and SMF-28 fiber

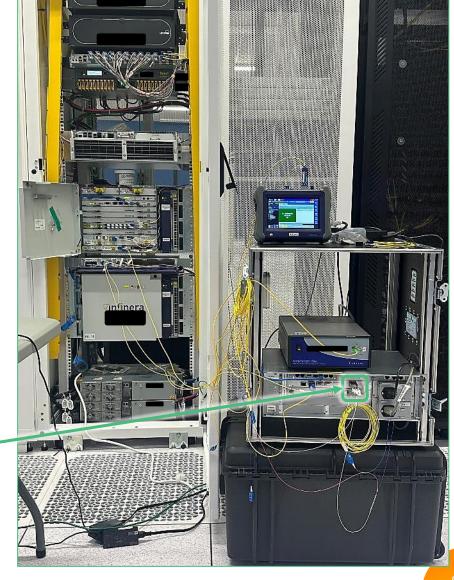






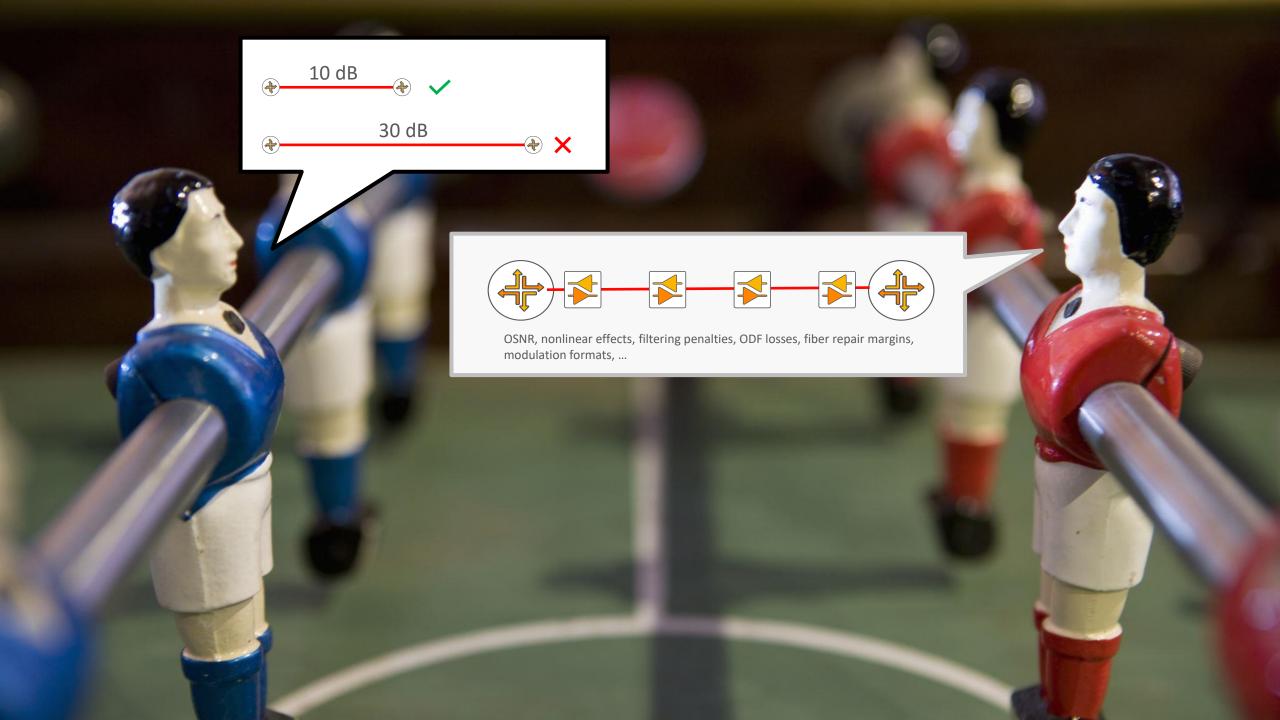
ICE-X 400G ZR+

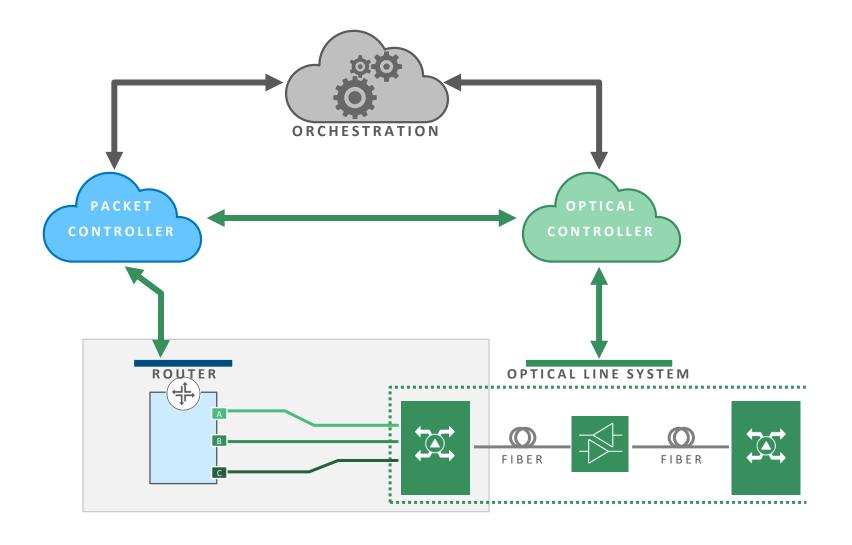




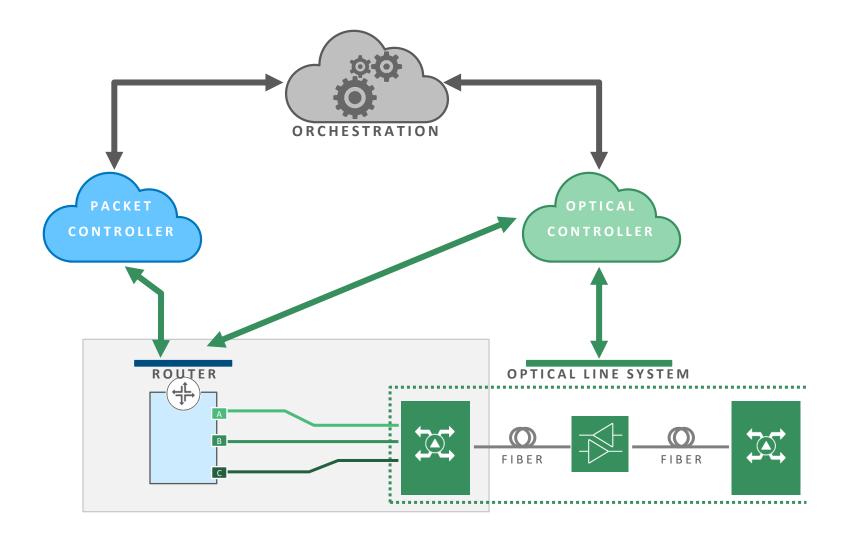












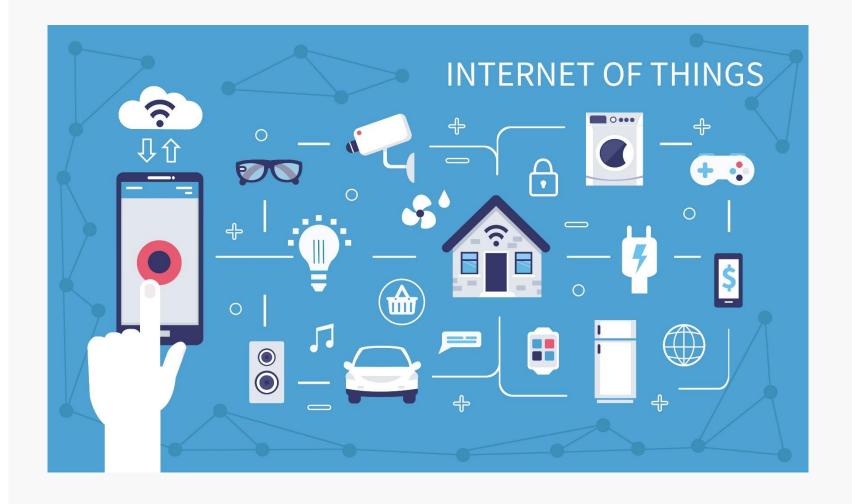


Taking Cues from Adjacent Markets I



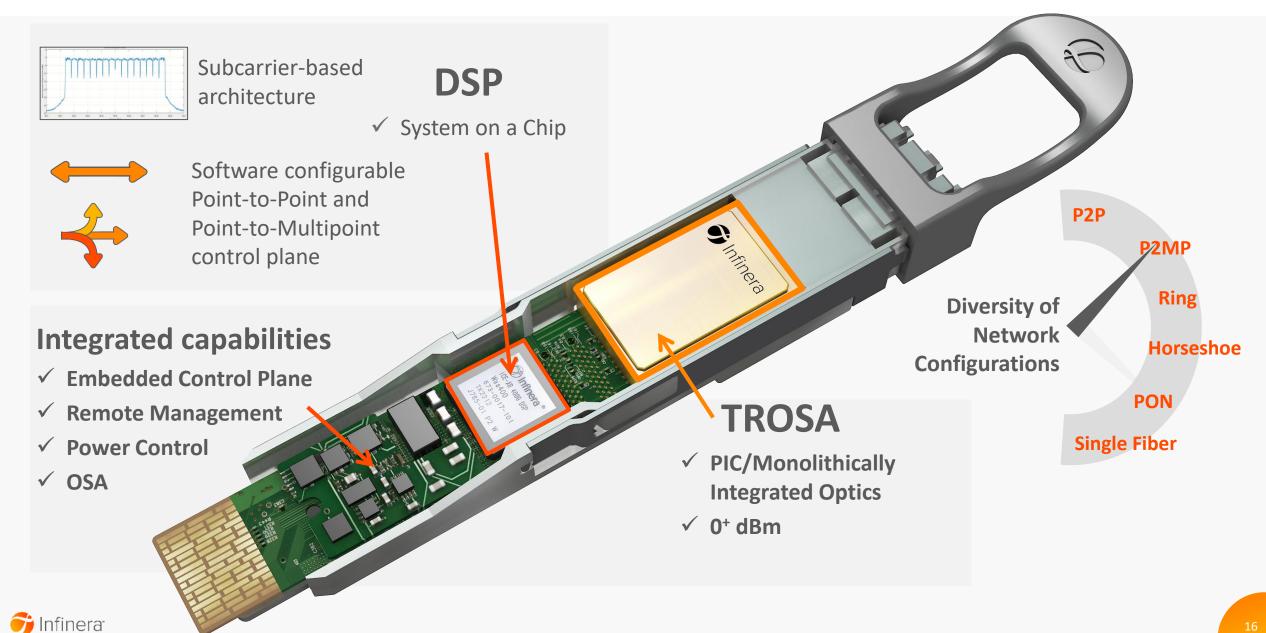


Taking Cues from Adjacent Markets II





Intelligent Coherent Pluggables



Host-Independent IPoDWDM Management

